

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An image conversion unit for converting a first image with a first resolution into a second image with a second resolution, the second resolution being higher than the first resolution, ~~characterized in that~~ the image conversion unit comprising:

is a noise adder arranged to add noise to the second image, wherein the said noise comprises spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image; ~~and wherein the image conversion unit comprises~~

a spatial enhancement filter for enhancing structures of an intermediate image which is based on the first image and which has the second resolution.

2. (Currently amended) ~~An~~ The image conversion unit as claimed in claim 1, ~~characterized in further~~ comprising a noise generator which is arranged to generate the noise and that the noise comprises

spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image.

3. (Currently amended) ~~An~~ The image conversion unit as claimed in claim 2, ~~characterized in that~~ wherein the noise generator is arranged to generate colored noise.

4. (Currently amended) ~~An~~ The image conversion unit as claimed in claim 3, ~~characterized in that~~ wherein the noise generator is arranged to generate colored noise that comprises further spectral components which are in another part of the frequency spectrum which is below the Nyquist frequency of the first image, the total energy of the spectral components being higher than the total energy of the further spectral components.

5. (Currently amended) ~~An~~ The image conversion unit as claimed in claim 1, ~~characterized in that~~ wherein the amount of noise that is added is based on a noise measurement.

6. (Currently amended) ~~An~~ The image conversion unit as claimed in claim 1, ~~characterized in that the spatial enhancement filter for~~

~~enhancing structures of the intermediate image which is based on the first image and which has the second resolution,~~wherein the enhancing resulting into performed by the spatial enhancement filter results in the second image.

7. (Currently amended) A method of converting a first image with a first resolution into a second image with a second resolution, the second resolution being higher than the first resolution, ~~characterized in that the method comprising acts of:~~

~~adding noise is added~~ to the second image, wherein the said noise comprises spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image, and

enhancing structures of an intermediate image which is based on the first image and which has the second resolution.

8. (Currently amended) An image processing apparatus comprising:

receiving means for receiving a signal corresponding to a first image; and

~~the an~~ image conversion unit for converting the first image into a second image, ~~characterized in that~~wherein the image

conversion unit is arranged to add noise to the second image, wherein the said noise comprises spectral components that are in a part of a frequency spectrum that is above the Nyquist frequency of the first image; and wherein the image conversion unit comprises a spatial enhancement filter for enhancing structures of an intermediate image which is based on the first image and which has the second resolution.

9. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 8, ~~characterized in further comprising a display device for displaying the second image.~~

10. (Currently amended) ~~A TV comprising an~~ The image processing apparatus as claimed in claim 9, wherein the image processing apparatus is a TV.